

Technical Data Sheet

POLYFORT® FPP 10 TFA K1741

Polypropylene Homopolymer
Engineering Plastics



Product Description

10% talc filled PP-Homopolymer, very high flow and antistatic

General

Filler / Reinforcement	• Talc, 10% Filler by Weight		
Features	• Good Flow	• Homopolymer	
Processing Method	• Injection Molding		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.970 g/cm³	0.970 g/cm³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	32 cm³/10min	32 cm³/10min	ISO 1133
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	247000 psi	1700 MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	4640 psi	32.0 MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	8.0 %	8.0 %	ISO 527-2/1A/50
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	1.9 ft·lb/in²	4.0 kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength 73°F (23°C)	24 ft·lb/in²	50 kJ/m²	ISO 179/1eU
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Ball Indentation Hardness (H 358/30)	12000 psi	83.0 MPa	ISO 2039-1
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature			
66 psi (0.45 MPa), Unannealed	201 °F	94.0 °C	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	135 °F	57.0 °C	ISO 75-2/Af
Vicat Softening Temperature			
--	302 °F	150 °C	ISO 306/A50
--	192 °F	89.0 °C	ISO 306/B50
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Burning Rate			
0.0787 in (2.00 mm)	< 3.9 in/min	< 100 mm/min	ISO 3795
0.0787 in (2.00 mm)	< 3.9 in/min	< 100 mm/min	FMVSS 302



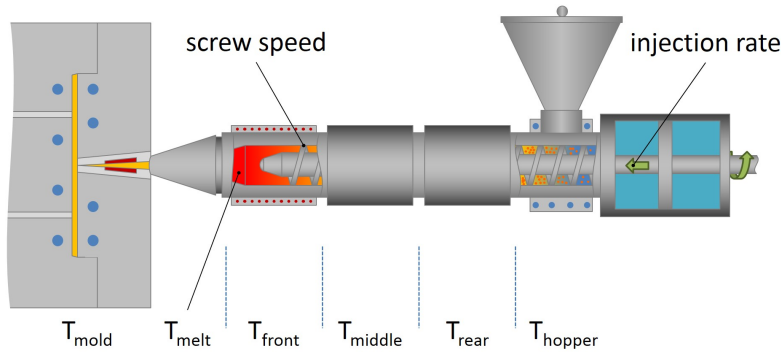
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Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	2.0 to 3.0 hr	2.0 to 3.0 hr
Suggested Max Regrind	20 %	20 %
Processing (Melt) Temp	446 to 518 °F	230 to 270 °C
Mold Temperature	104 to 158 °F	40 to 70 °C

Injection Notes

Drying normally not necessary.

Injection molding parameters also influence emission properties, which are often required for automotive interior applications. Generally speaking, the emission, odor and fogging behavior of finished parts is improved by lowering the melt temperature, reducing residence time and avoiding high shear stress.

Notes

These are typical property values not to be construed as specification limits.

